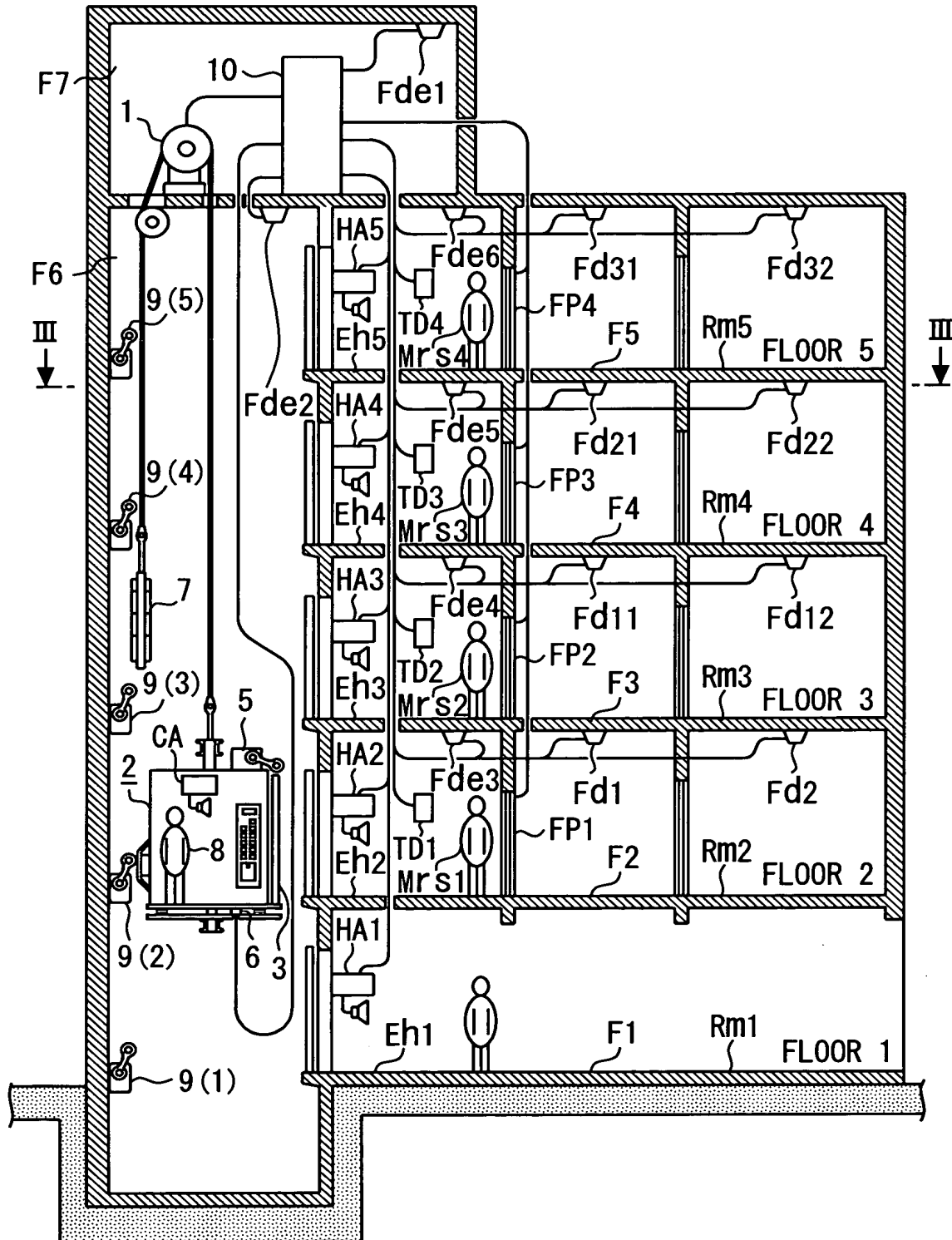
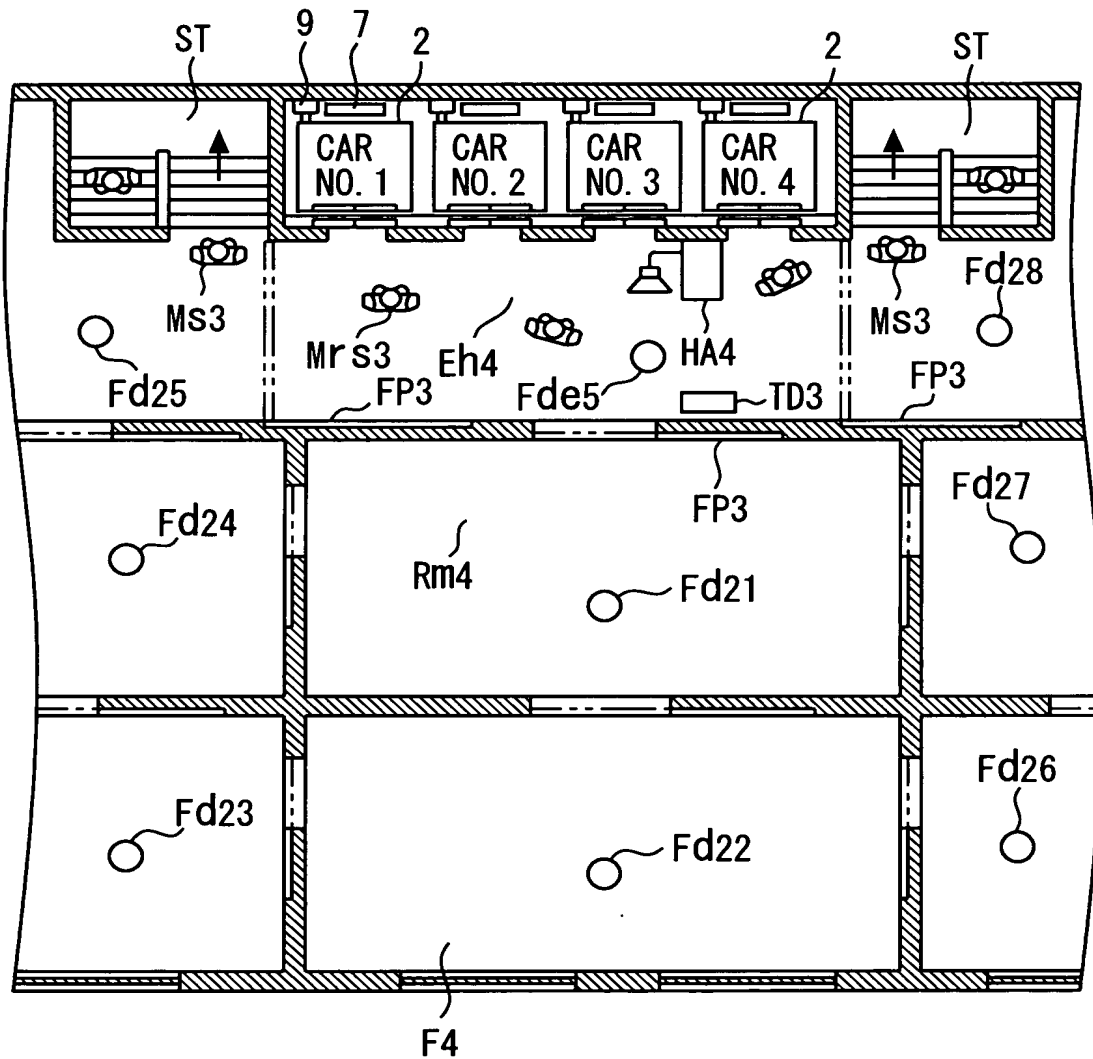
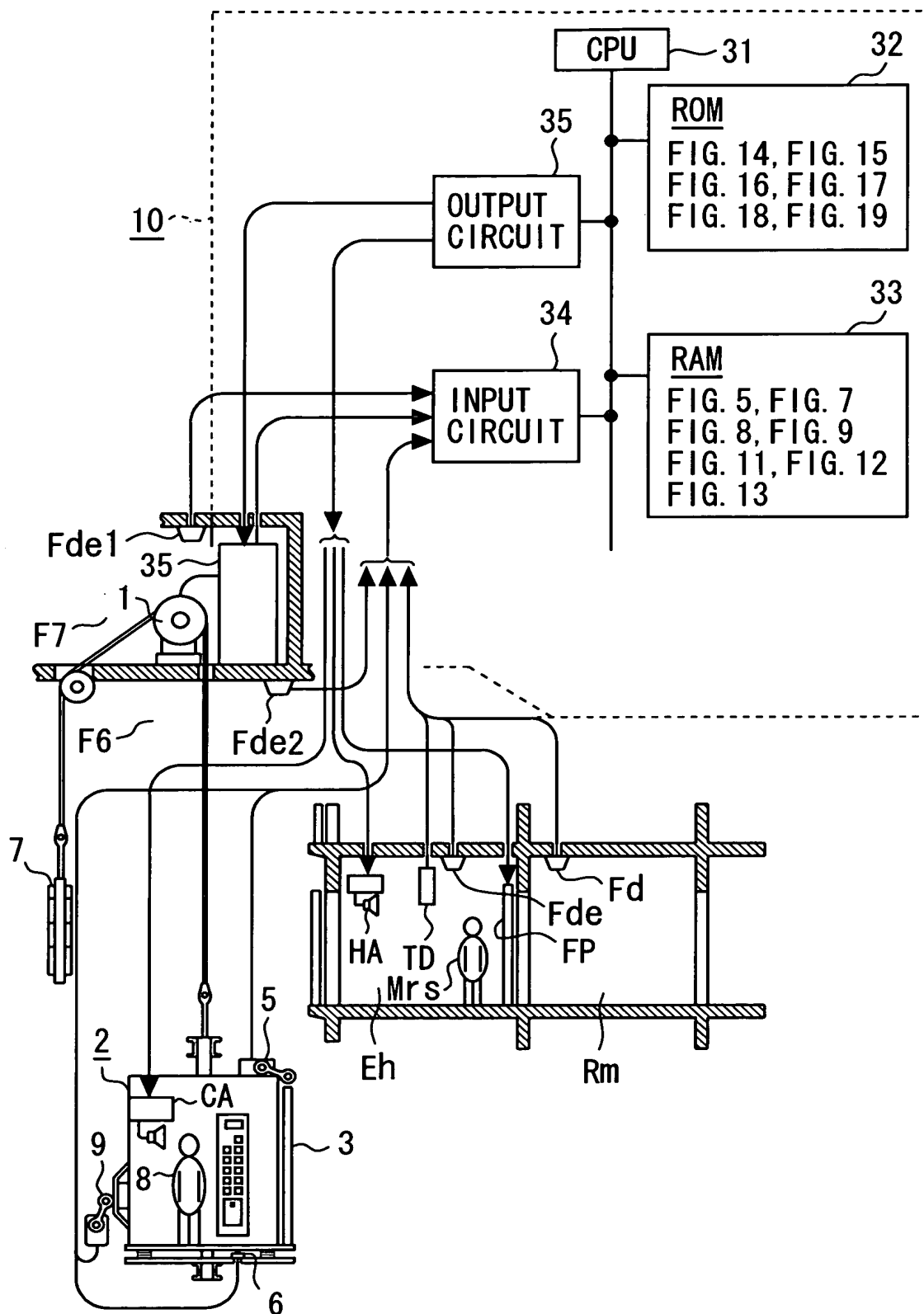


Kiyoji KAWAI Q84590
FIRE CONTROL SYSTEM FOR ELEVATOR
Filing Date: December 2, 2004
Richard C. Turner 202-293-7060
2 of 16 904516581







5/16
FIG. 5

Kiyoji KAWAI Q84590
FIRE CONTROL SYSTEM FOR ELEVATOR
Filing Date: December 2, 2004
Richard C. Turner 202-293-7060
5 of 16

10/516541

MEMORY ADDRESS B+(j)	FLOOR FL (j)	ENROLLMENT Mn (j)	NUMBER OF EMERGENCY- STAIRCASE- EVACUEE Ms (j)	NUMBER OF EVACUEE USED ELEVATOR Me (j)
j:1	FLOOR2 F2	300	290	10
	FLOOR3 F3	300	250	50
	FLOOR4 F4	400	100	300
	FLOOR5 F5	300	50	250

33a: EVACUEE-NUMBER TABLE

FIG. 6

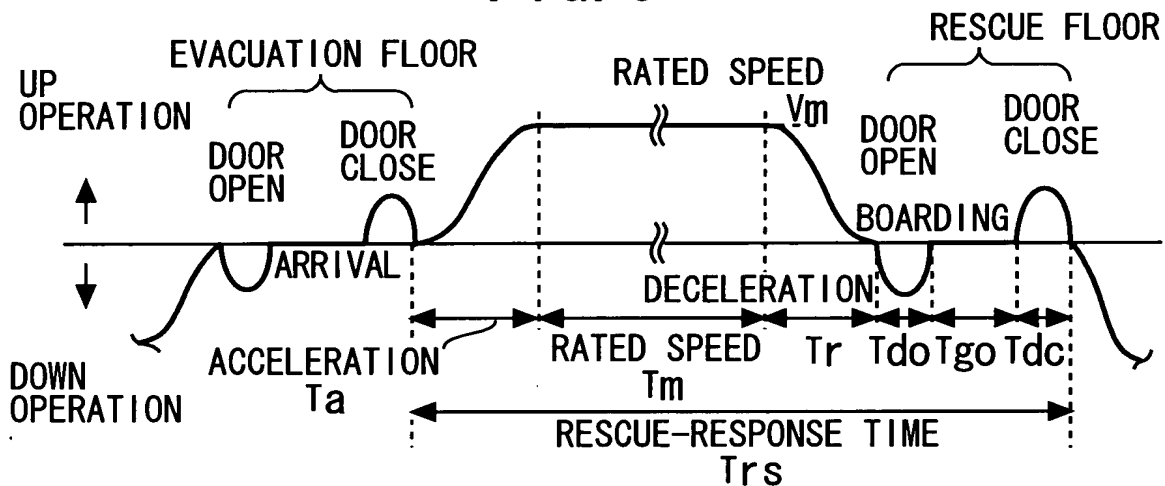


FIG. 7

RATED SPEED $V_m=90\text{m/min}$, IN CASE OF 11PASSENGER UNIT:SECONDS

MEMORY ADDRESS G+(k)	FLOOR FL FL(k)	DISTANCE FROM EVACUATION FLOOR Ds(k)	ACCELERATION TIME Ta(k)	TIME AT RATED SPEED Tm(k)	DECELERATION TIME Tr(k)	DOOR OPENING- CLOSING TIME Toc(k) (Tdo+ Tdc)	BOARDING TIME Tgo(k)	RESCUE- RESPONSE TIME Trs(k)
k:1	FLOOR2 F2	3	1.5	0.5	1.5	4	9	19.5
	FLOOR3 F3	6	1.5	2.5	1.5	4	9	24.5
	FLOOR4 F4	9	1.5	4.5	1.5	4	9	29.5
	FLOOR5 F5	12	1.5	6.5	1.5	4	9	34.5

33b: RESCUE-RESPONSE-TIME TABLE

6/16 FIG. 8

Kiyoji KAWAI Q84590
FIRE CONTROL SYSTEM FOR ELEVATOR
Filing Date: December 2, 2004
Richard C. Turner 202-293-7060
6 of 16

10/516541

MEMORY ADDRESS E+ (g)	FIRE DETECTOR Fde (g)	FLOOR FL (g)	ACTIVATION STATE FNe (g)
g:1	Fde1	MACHINEROOM F7	OFF
g:2	Fde2	HOISTWAY F6	OFF
g:3	Fde3	FLOOR 2 F2	OFF
	Fde4	FLOOR 3 F3	OFF
	Fde5	FLOOR 4 F4	OFF
	Fde6	FLOOR 5 F5	OFF

ELEVATOR HALL Eh

33c: FIRE-DETECTOR-ACTIVATION TABLE
(MACHINEROOM F7, HOISTWAY F6, ELEVATOR HALL Eh)

FIG. 9

MEMORY ADDRESS D+ (m)	FIRE DETECTOR Fde (m)	FLOOR FL (m)	ACTIVATION STATE FN (m)
m:1	Fde1	FLOOR 2 F2	OFF
	Fde2	FLOOR 2 F2	OFF
	Fde3	FLOOR 2 F2	OFF
	Fde21	FLOOR 4 F4	OFF
	Fde22	FLOOR 4 F4	ON
	Fde23	FLOOR 4 F4	ON
	Fde28	FLOOR 5 F5	OFF

33d: FIRE-DETECTOR-ACTIVATION TABLE (ROOM Rm)

7/16 FIG. 10

Kiyoji KAWAI Q84590
FIRE CONTROL SYSTEM FOR ELEVATOR
Filing Date: December 2, 2004
Richard C. Turner 202-293-7060
7 of 16

10/516541

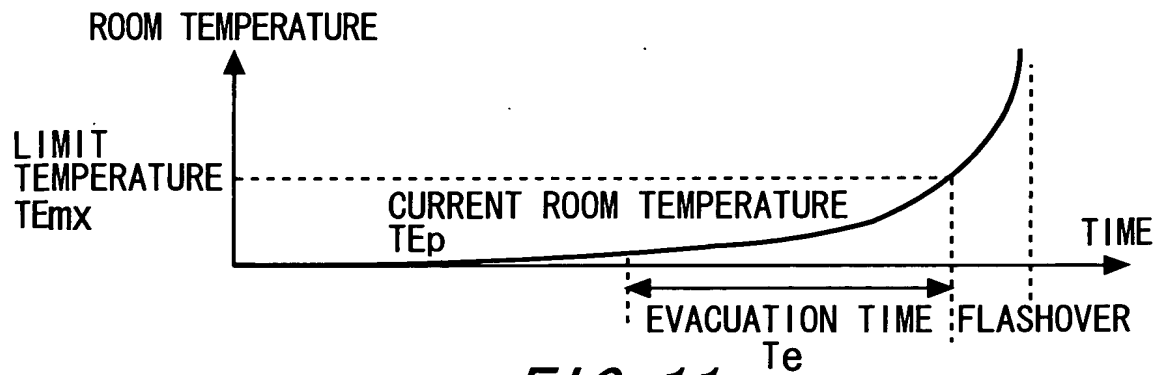


FIG. 11

MEMORY ELEVATOR CURRENT ROOM EVACUATION
ADDRESS HALL FL (i) TEMPERATURE TIME $Te(i)$
 $A+(i)$ $TE_p(i)$

i:1	FLOOR 2 F2	24°C	90MINUTES
	FLOOR 3 F3	25°C	80MINUTES
	FLOOR 4 F4	70°C	10MINUTES
	FLOOR 5 F5	50°C	20MINUTES

33e:EVACUATION-TIME TABLE

FIG. 12

MEMORY FLOOR EVACUATION
ADDRESS FL (p) TIME $Te(p)$
 $U+(p)$

p:1	FLOOR 4 F4	10MINUTES
	FLOOR 5 F5	20MINUTES
	FLOOR 3 F3	80MINUTES
	FLOOR 2 F2	90MINUTES

33f:RESCUE-OPERATION-ORDER TABLE
(EVACUATION-TIME SEQUENTIAL)

FIG. 13

MEMORY FLOOR NUMBER OF NUMBER OF
ADDRESS FL (h) EVACUEE USED ELEVATOR REMAINDER
 $F+(h)$ $Me(h)$ $Mrs(h)$

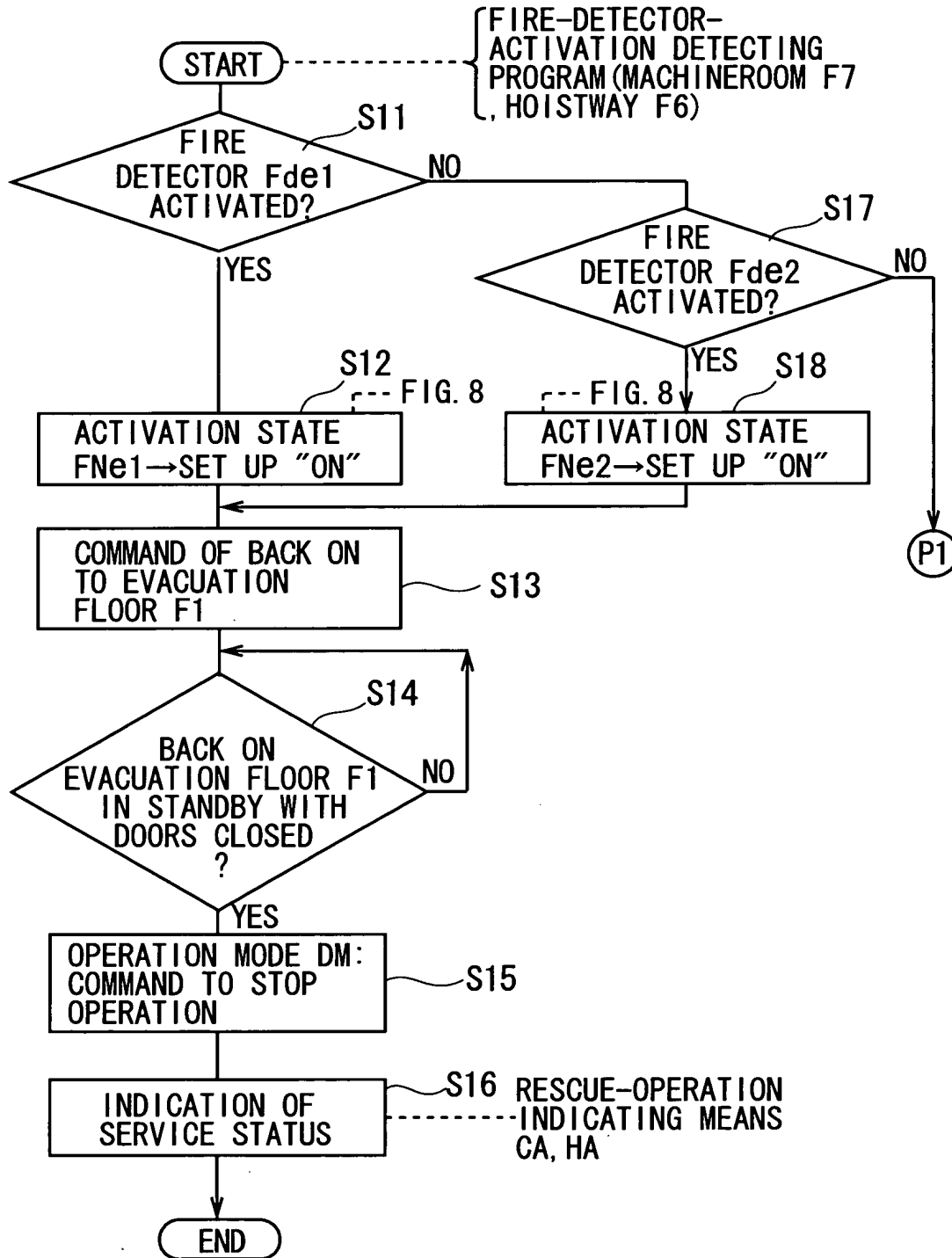
h:1	FLOOR 2 F2	10	10
	FLOOR 3 F3	50	50
	FLOOR 4 F4	300	260
	FLOOR 5 F5	250	250

33g:REMAINDER-NUMBER TABLE

8/16
FIG. 14

Kiyoji KAWAI Q84590
FIRE CONTROL SYSTEM FOR ELEVATOR
Filing Date: December 2, 2004
Richard C. Turner 202-293-7060
8 of 16

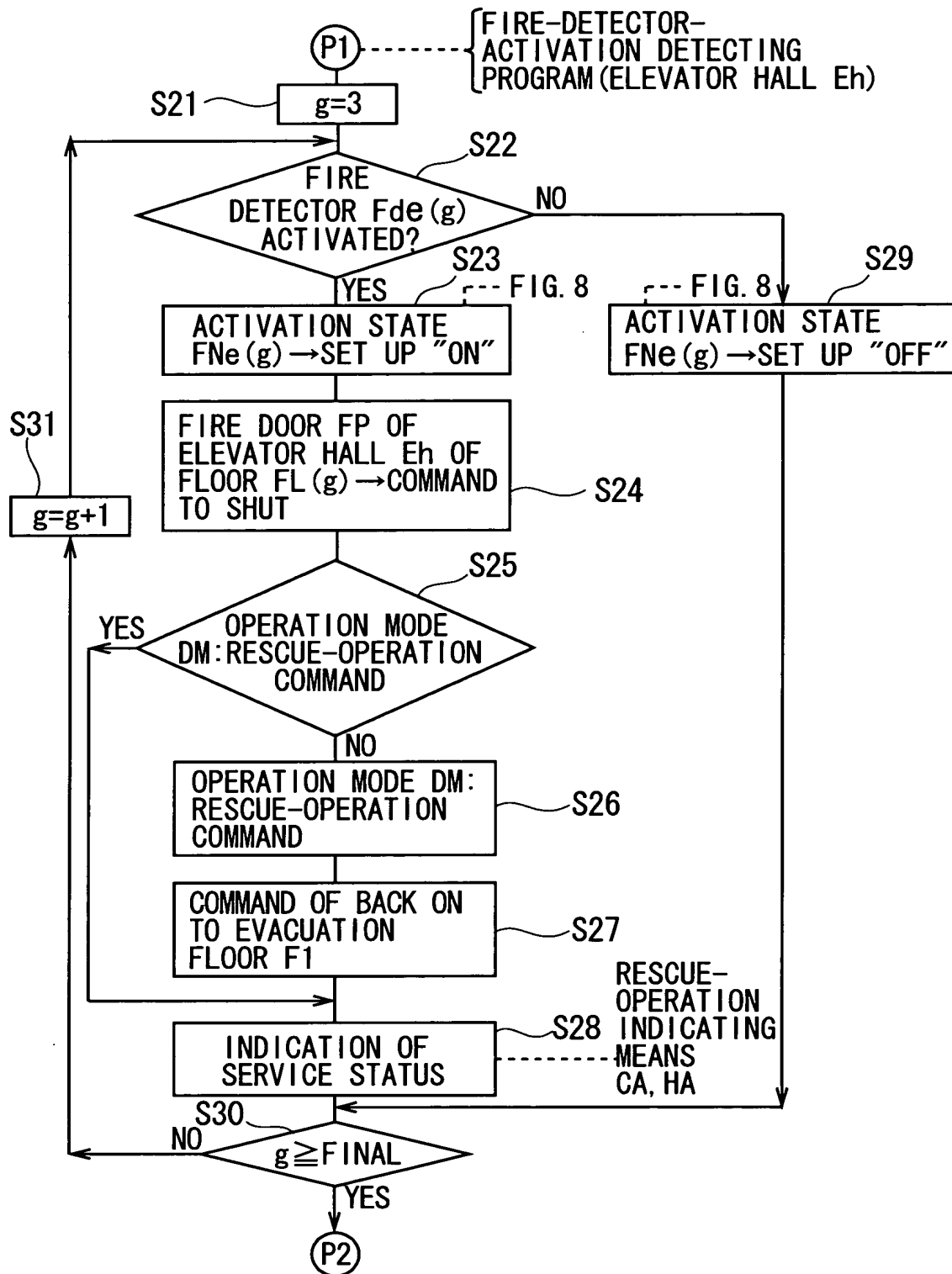
10/516541



9/16
FIG. 15

Kiyoji KAWAI Q84590
FIRE CONTROL SYSTEM FOR ELEVATOR
Filing Date: December 2, 2004
Richard C. Turner 202-293-7060
9 of 16

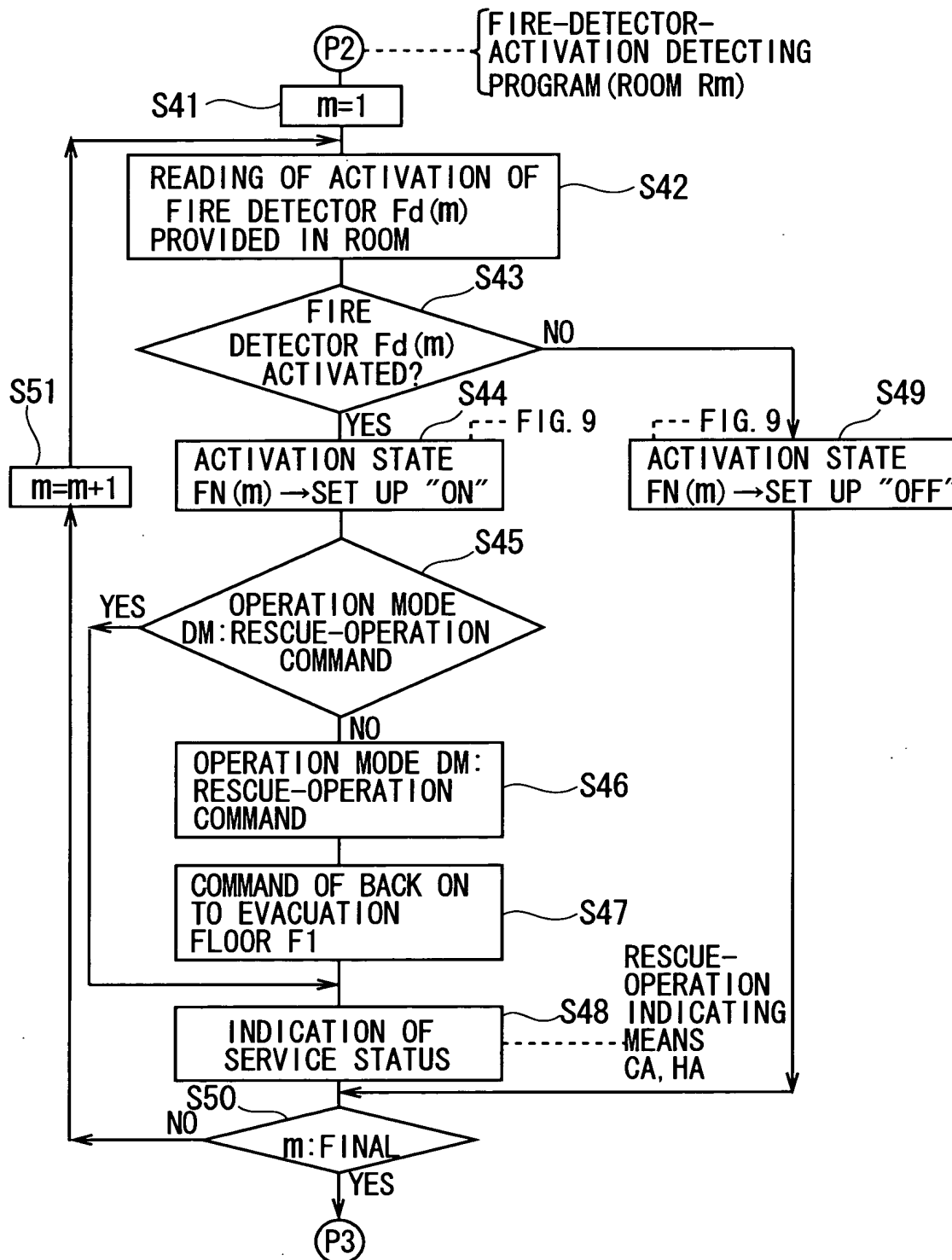
10/516541



10/16
FIG. 16

Kiyoji KAWAI Q84590
FIRE CONTROL SYSTEM FOR ELEVATOR
Filing Date: December 2, 2004
Richard C. Turner 202-293-7060
10 of 16

10/516541

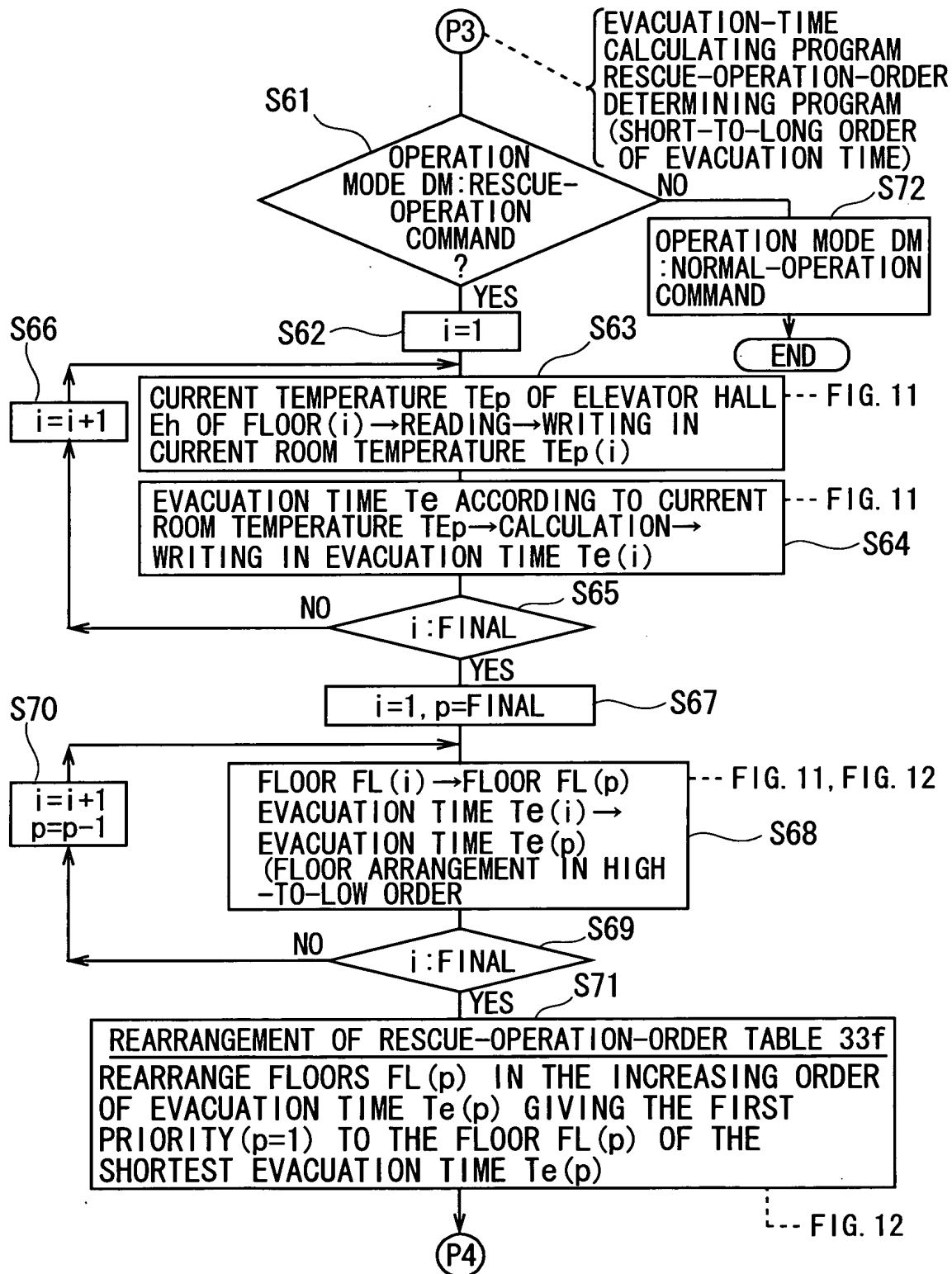


11/16

FIG. 17

Kiyoji KAWAI Q84590
FIRE CONTROL SYSTEM FOR ELEVATOR
Filing Date: December 2, 2004
Richard C. Turner 202-293-7060
11 of 16

10/516541

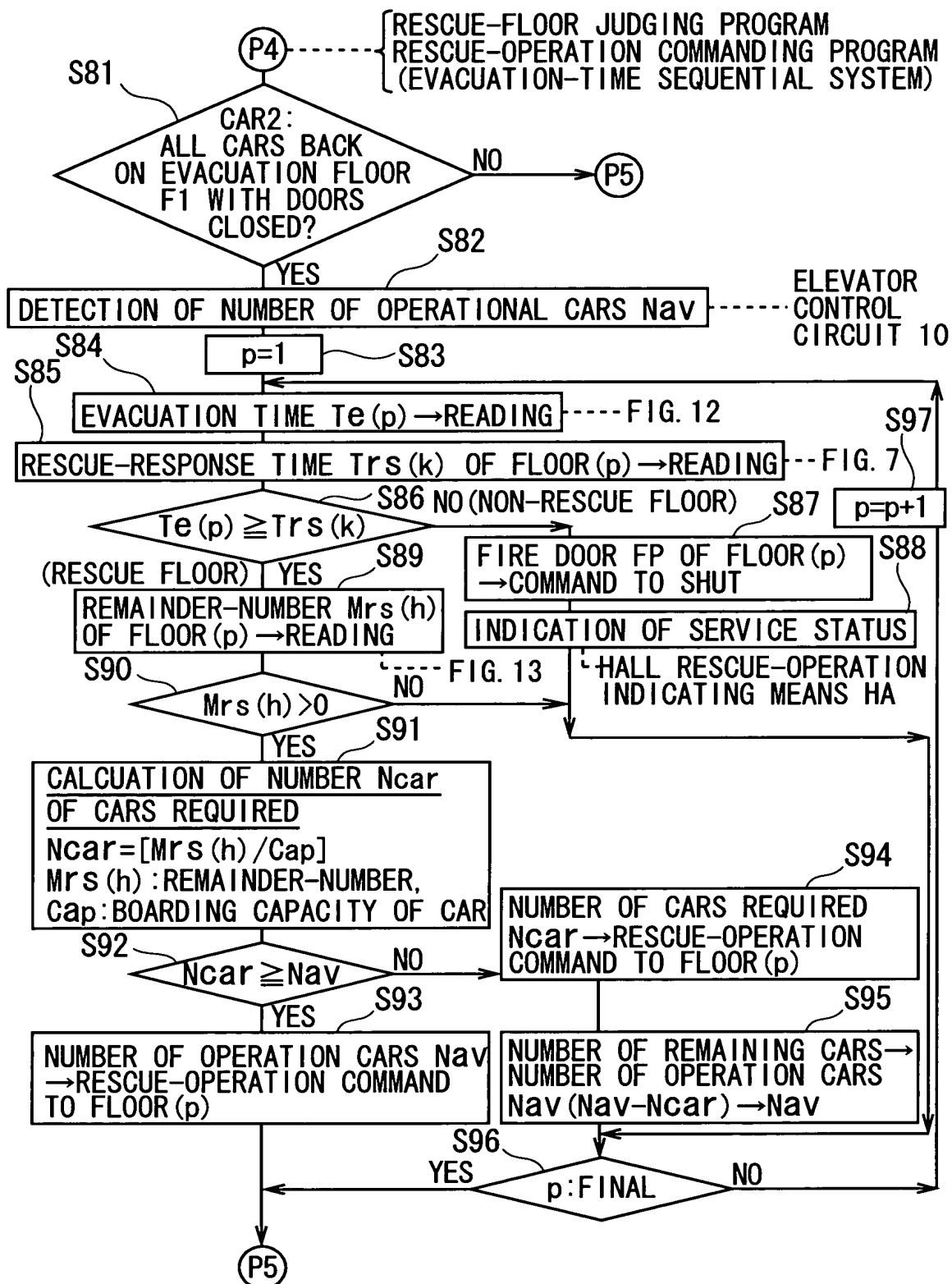


12/16

FIG. 18

Kiyoji KAWAI Q84590
FIRE CONTROL SYSTEM FOR ELEVATOR
Filing Date: December 2, 2004
Richard C. Turner 202-293-7060
12 of 16

10/516541

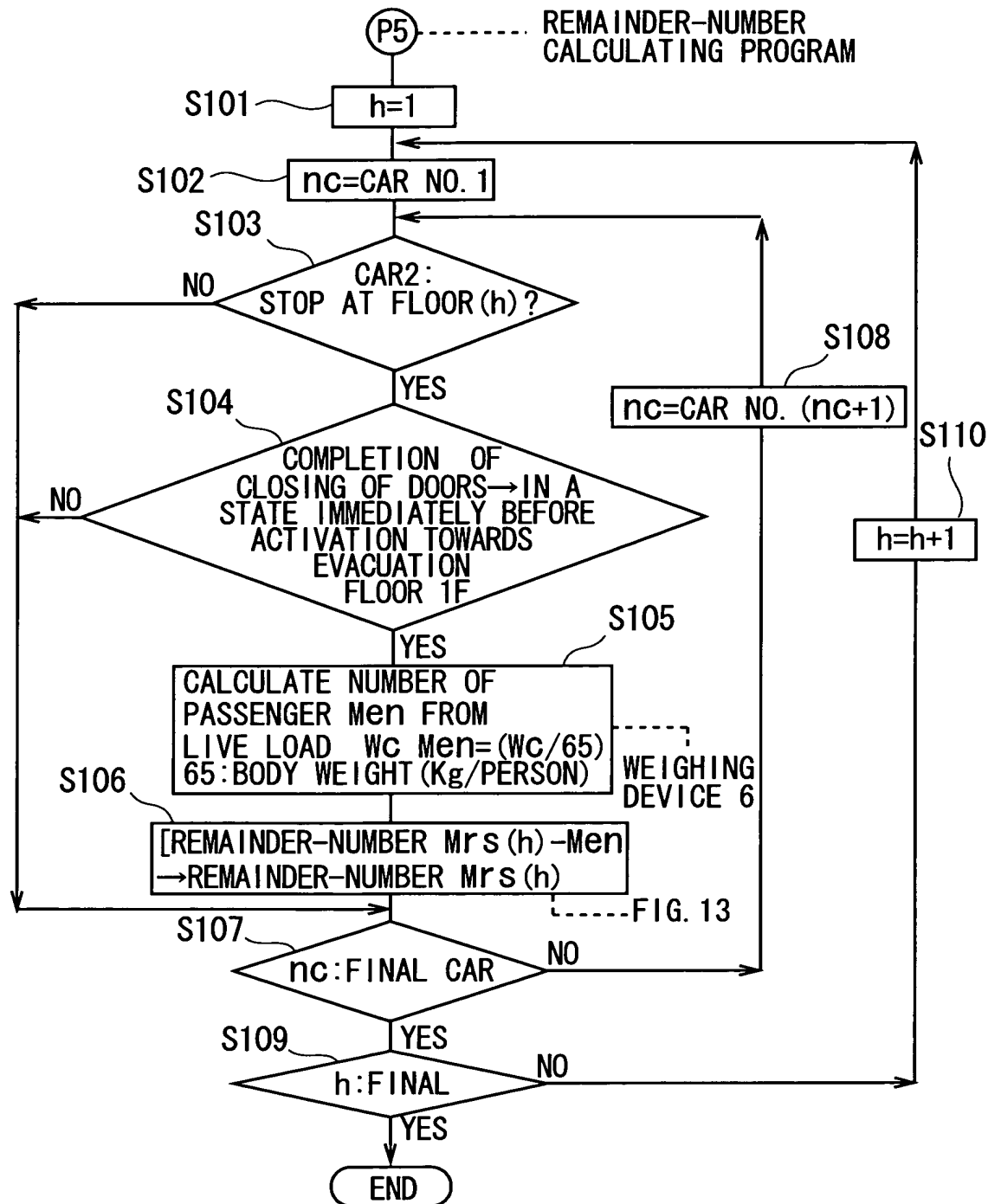


13/16

FIG. 19

Kiyoji KAWAI Q84590
FIRE CONTROL SYSTEM FOR ELEVATOR
Filing Date: December 2, 2004
Richard C. Turner 202-293-7060
13 of 16

10/516541



14/16
FIG. 20

Kiyoji KAWAI Q84590
FIRE CONTROL SYSTEM FOR ELEVATOR
Filing Date: December 2, 2004
Richard C. Turner 202-293-7060
14 of 16

10/516541

MEMORY ADDRESS V+(q) FLOOR FL (q) NUMBER OF REMAINDER Mrs (q)

q:1	FLOOR 4 F4	260
	FLOOR 5 F5	250
	FLOOR 3 F3	50
	FLOOR 2 F2	10

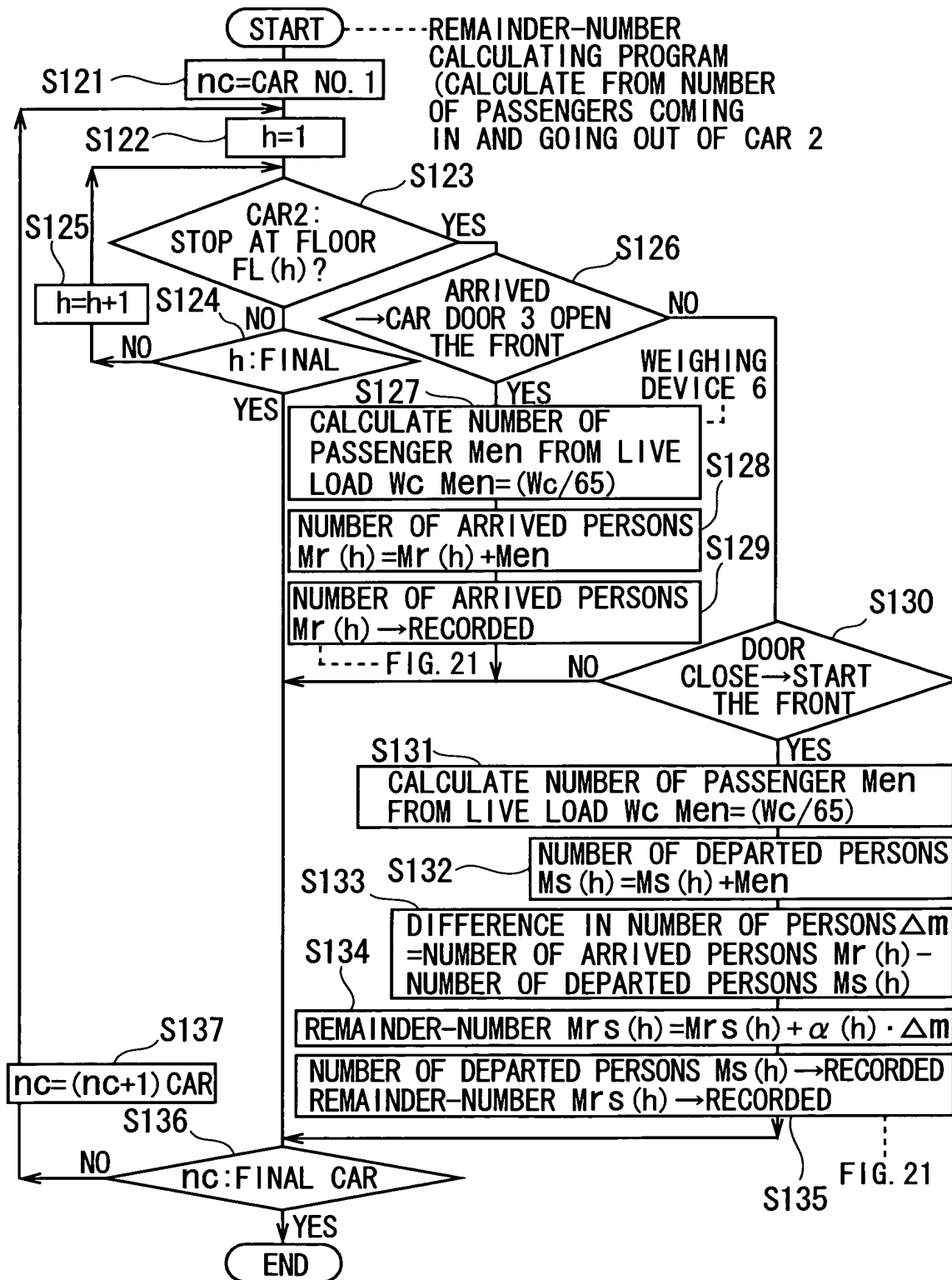
33h: RESCUE-OPERATION-ORDER TABLE
(IN REMAINDER-NUMBER ORDER)

FIG. 21

MEMORY ADDRESS F+(h) FLOOR FL (h) NUMBER OF ARRIVED PERSONS Mr (h) NUMBER OF DEPARTED PERSONS Ms (h) ELEVATOR EVACUATION RATIO α (h) NUMBER OF REMAINDER Mrs (h)

h:1	FLOOR 2 F2	500	200	1/30	10
	FLOOR 3 F3	600	300	5/30	50
	FLOOR 4 F4	770	380	20/30	260
	FLOOR 5 F5	600	300	25/30	250

33g: REMAINDER-NUMBER TABLE



16/16
FIG. 23

Kiyoji KAWAI Q84590
FIRE CONTROL SYSTEM FOR ELEVATOR
Filing Date: December 2, 2004
Richard C. Turner 202-293-7060
16 of 16

10/516541

